UIC Well Registration
Saville, Yelena V.
to:
Jennifer Parker
05/16/2011 03:28 PM
Cc:
'Bret Berglund'
Show Details

Hello Jennifer,

Please process our request to register an injection well that is located at the Municipal Light & Power, Power Plant 1, Anchorage, Alaska.
Based on your discussions with Bill O'Connell of Alaska Department of Environmental Conservation, this well needs to be registered as Class V well.
Attached are the inventory form and the diagram of the infiltration system. The fluids that will enter the well are only rain water and snow melt.

If you have any questions, please contact me at (907)263-5273.

Thank you,

Yelena Saville
Environmental Engineer, ML&P

Type or print all information. See reverse for instructions. OMB No. 2040-0042 Approval Expires 12/31/2011

# INVENTORY OF INJECTION WELLS

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF GROUND WATER AND DRINKING WATER

(This information is collected under the authority of the Safe Drinking Water Act)

**1. DATE PREPARED** *(Year, Month, Day)*: 11-05-16

**2. FACILITY ID NUMBER**:



**3. TRANSACTION TYPE** *(Please mark one of the following)*

- [ ] Deletion
- [x] First Time Entry
- [ ] Entry Change
- [ ] Replacement

## 4. FACILITY NAME AND LOCATION

**A. NAME** *(last, first, and middle initial)*: Hank Nikkels Plant No. 1

**B. STREET ADDRESS/ROUTE NUMBER**: 821 E. First Avenue

**C. LATITUDE**

| DEG | MIN | SEC |
|---|---|---|
| 61 | 13 | 10.44 |

**D. LONGITUDE**

| DEG | MIN | SEC |
|---|---|---|
| 149 | 52 | 30.34 |

**E. TOWNSHIP/RANGE**

| TOWNSHIP | RANGE | SECT | 1/4 SECT |
|---|---|---|---|
| 13W | 3W | 18 | NE |

**F. CITY/TOWN**: Anchorage

**G. STATE**: AK

**H. ZIP CODE**: 99501

**I. NUMERIC COUNTY CODE**: 020

**J. INDIAN LAND** *(mark "x")*: [ ] Yes [x] No

## 5. LEGAL CONTACT:

**A. TYPE** *(mark "x")*: [x] Owner [ ] Operator

**B. NAME** *(last, first, and middle initial)*: Helmick, Daniel, B.

**C. PHONE** *(area code and number)*: (907) 263-5273

**D. ORGANIZATION**: Anchorage Municipal Light and Power

**E. STREET/P.O. BOX**: 200 E. First Avenue

**F. CITY/TOWN**: Anchorage

**G. STATE**: AK

**H. ZIP CODE**: 99501

**I. OWNERSHIP** *(mark "x")*

- [ ] PRIVATE
- [x] PUBLIC
- [ ] SPECIFY OTHER
- [ ] STATE
- [ ] FEDERAL

## 6. WELL INFORMATION:

| A. CLASS AND TYPE | | B. NUMBER OF WELLS: COMM | B. NUMBER OF WELLS: NON-COMM | C. TOTAL NUMBER OF WELLS | D. WELL OPERATION STATUS: UC | AC | TA | PA | AN |
|---|---|---|---|---|---|---|---|---|---|
| V | II | 0 | 1 | 1 | | 1 | | | |
| | | | | 0 | | | | | |
| | | | | 0 | | | | | |
| | | | | 0 | | | | | |
| | | | | 0 | | | | | |
| | | | | 0 | | | | | |
| | | | | 0 | | | | | |

**COMMENTS** *(Optional)*:

Well is for infiltration of storm water runoff from a paved yard. Drainage well consists of a 4 ft diamater, 4 ft deep collection vault which drains into an infiltraion trench. Trench is 36" wide, 42" deep and 40 ft long, filled with 2" drain rock from the bottom to ~20 inches below grade and covered with compacted fill. Center of trench fitted with a 40 ft section of slotted pipe connected to vault. Bottom and side walls of trench also lined with geofabric. Water table ~4-6 ft bgs.

**KEY:**

DEG = Degree
MIN = Minute
SEC = Second
SECT = Section
1/4 SECT = Quarter Section

COMM = Commercial
NON-COMM = Non-Commercial
AC = Active
UC = Under Construction
TA = Temporarily Abandoned
PA = Permanently Abandoned and Approved by State
AN = Permanently Abandoned and not Approved by State

**SECTION 1. DATE PREPARED:** Enter date in order of year, month, and day.

**SECTION 2. FACILITY ID NUMBER:** In the first two spaces, insert the appropriate U.S. Postal Service State Code. In the third space, insert one of the following one letter alphabetic identifiers:

D - DUNS Number,
G - GSA Number, or
S - State Facility Number.

In the remaining spaces, insert the appropriate nine digit DUNS, GSA, or State Facility Number. For example, A Federal facility (GSA - 123456789) located in Virginia would be entered as : VAG123456789.

**SECTION 3. TRANSACTION TYPE:** Place an "x" in the applicable box. See below for further instructions.

**Deletion.** Fill in the Facility ID Number.
**First Time Entry.** Fill in all the appropriate information.
**Entry Change.** Fill in the Facility ID Number and the information that has changed.
**Replacement.**

**SECTION 4. FACILITY NAME AND LOCATION:**

A. **Name.** Fill in the facility's official or legal name.
B. **Street Address.** Self Explanatory.
C. **Latitude.** Enter the facility's latitude (all latitudes assume North Except for American Samoa).
D. **Longitude.** Enter the facility's longitude (all longitudes assume West except Guam).
E. **Township/Range.** Fill in the complete township and range. The first 3 spaces are numerical and the fourth is a letter (N,S,E,W) specifying a compass direction. A township is North or South of the baseline, and a range is East or West of the principal meridian (e.g., 132N, 343W).
F. **City/Town.** Self Explanatory.
G. **State.** Insert the U.S. Postal Service State abbreviation.
H. **Zip Code.** Insert the five digit zip code plus any extension.

**SECTION 4. FACILITY NAME & LOCATION (CONT'D.):**

I. **Numeric County Code.** Insert the numeric county code from the Federal Information Processing Standards Publication (FIPS Pub 6-1) June 15, 1970, U.S. Department of Commerce, National Bureau of Standards. For Alaska, use the Census Division Code developed by the U.S. Census Bureau.
J. **Indian Land.** Mark an "x" in the appropriate box (Yes or No) to indicate if the facility is located on Indian land.

**SECTION 5. LEGAL CONTACT:**

A. **Type.** Mark an "x" in the appropriate box to indicate the type of legal contact (Owner or Operator). For wells operated by lease, the operator is the legal contact.
B. **Name.** Self Explanatory.
C. **Phone.** Self Explanatory.
D. **Organization.** If the legal contact is an individual, give the name of the business organization to expedite mail distribution.
E. **Street/P.O. Box.** Self Explanatory.
F. **City/Town.** Self Explanatory.
G. **State.** Insert the U.S. Postal Service State abbreviation.
H. **Zip Code.** Insert the five digit zip code plus any extension.
I. **Ownership.** Place an "x" in the appropriate box to indicate ownership status.

**SECTION 6. WELL INFORMATION:**

A. **Class and Type.** Fill in the Class and Type of injection wells located at the listed facility. Use the most pertinent code (specified below) to accurately describe each type of injection well. For example, 2R for a Class II Enhanced Recovery Well, or 3M for a Class III Solution Mining Well, etc.
B. **Number of Commercial and Non-Commercial Wells.** Enter the total number of commercial and non-commercial wells for each Class/Type, as applicable.
C. **Total Number of Wells.** Enter the total number of injection wells for each specified Class/Type.
D. **Well Operation Status.** Enter the number of wells for each Class/Type under each operation status (see key on other side).

**CLASS I** Industrial, Municipal, and Radioactive Waste Disposal Wells used to inject waste below the lowermost Underground Source of Drinking Water (USDW).

| | | |
|---|---|---|
| TYPE | 1I | Non-Hazardous Industrial Disposal Well. |
| | 1M | Non-Hazardous Municipal Disposal Well. |
| | 1H | Hazardous Waste Disposal Well injecting below the lowermost USDW. |
| | 1R | Radioactive Waste Disposal Well. |
| | 1X | Other Class I Wells. |

**CLASS II** Oil and Gas Production and Storage Related Injection Wells.

| | | |
|---|---|---|
| TYPE | 2A | Annular Disposal Well. |
| | 2D | Produced Fluid Disposal Well. |
| | 2H | Hydrocarbon Storage Well. |
| | 2R | Enhanced Recovery Well. |
| | 2X | Other Class II Wells. |

**CLASS III** Special Process Injection Wells.

| | | |
|---|---|---|
| TYPE | 3G | *In Situ* Gasification Well |
| | 3M | Solution Mining Well. |

**CLASS III (CONT'D.)**

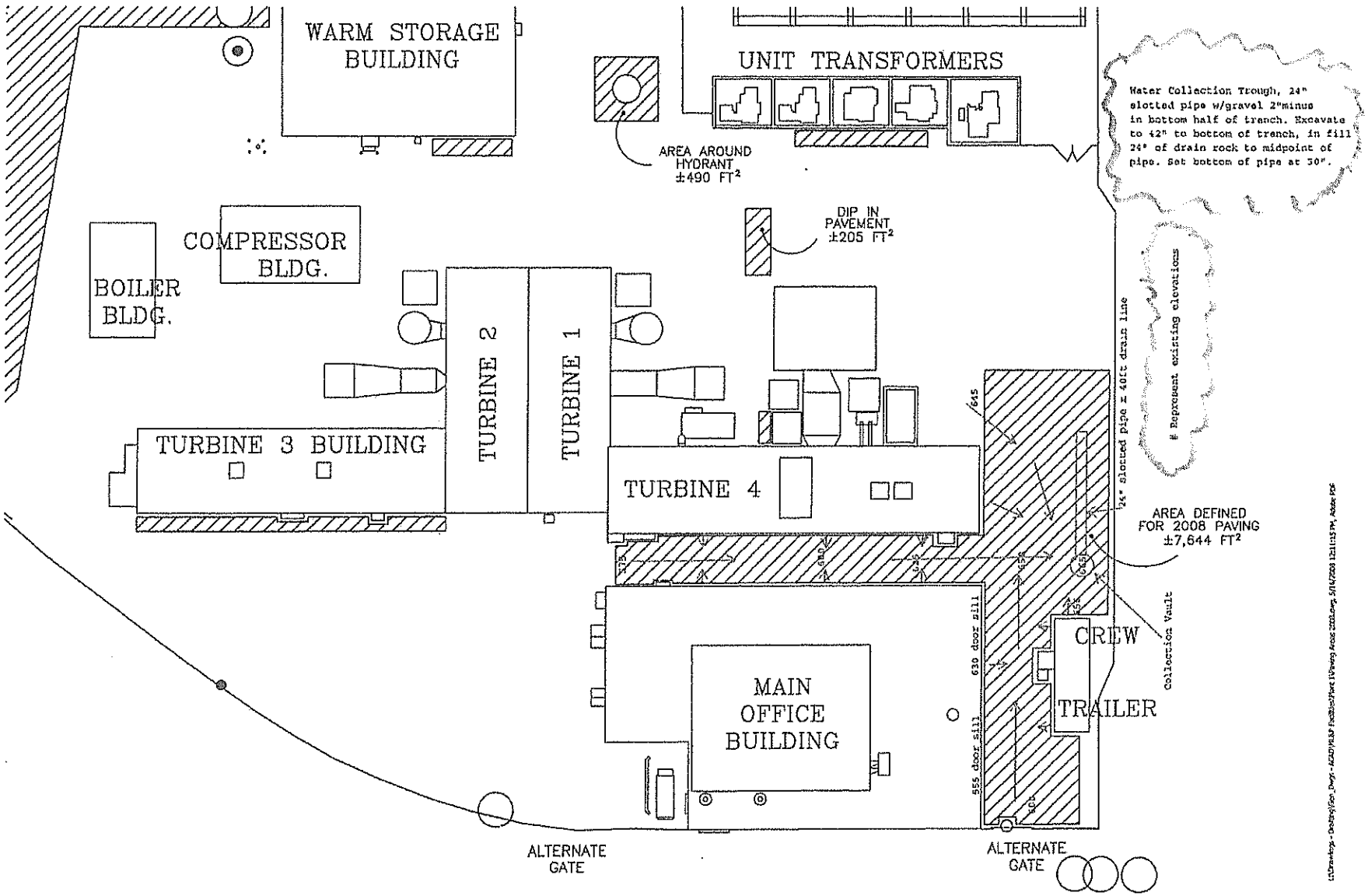
| | | |
|---|---|---|
| TYPE | 3S | Sulfur Mining Well by Frasch Process. |
| | 3T | Geothermal Well. |
| | 3U | Uranium Mining Well. |
| | 3X | Other Class III Wells. |

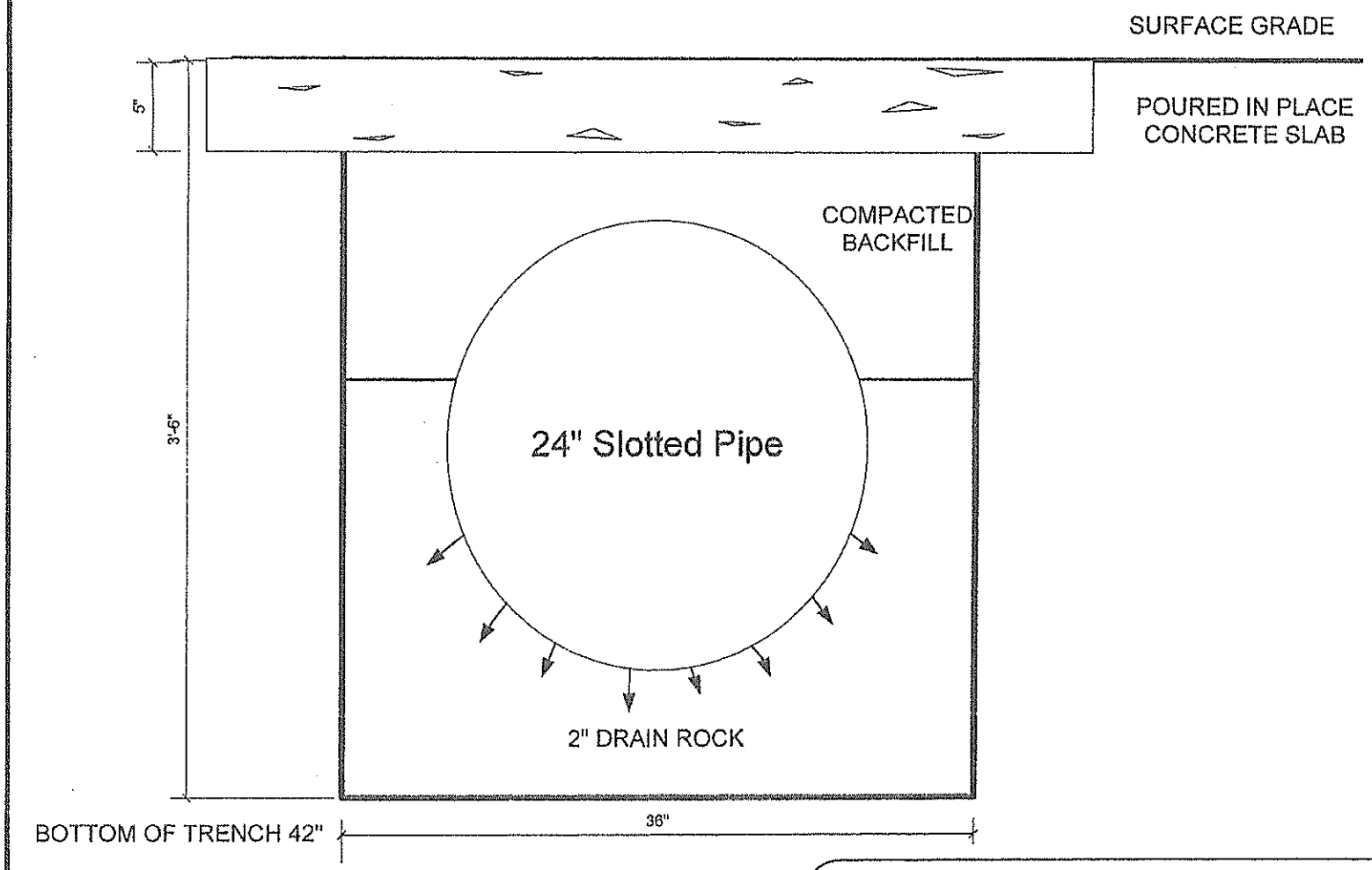
**CLASS IV** Wells that inject hazardous waste into/above USDWs.

| | | |
|---|---|---|
| TYPE | 4H | Hazardous Facility Injection Well. |
| | 4R | Remediation Well at RCRA or CERCLA site. |

**CLASS V** Any Underground Injection Well not included in Classes I through IV.

| | | |
|---|---|---|
| TYPE | 5A | Industrial Well. |
| | 5B | Beneficial Use Well. |
| | 5C | Fluid Return Well. |
| | 5D | Sewage Treatment Effluent Well. |
| | 5E | Cesspools (non-domestic). |
| | 5F | Septic Systems. |
| | 5G | Experimental Technology Well. |
| | 5H | Drainage Well. |
| | 5I | Mine Backfill Well. |
| | 5J | Waste Discharge Well. |


WARM STORAGE BUILDING
UNIT TRANSFORMERS
AREA AROUND HYDRANT ±490 FT²
Water Collection Trough, 24" slotted pipe w/gravel 2"minus in bottom half of trench. Excavate to 42" to bottom of trench, in fill 24" of drain rock to midpoint of pipe. Set bottom of pipe at 30".
DIP IN PAVEMENT ±205 FT²
COMPRESSOR BLDG.
BOILER BLDG.
TURBINE 2
TURBINE 1
TURBINE 3 BUILDING
TURBINE 4
# Represent existing elevations
24" slotted pipe x 40ft drain line
AREA DEFINED FOR 2008 PAVING ±7,644 FT²
Collection Vault
CREW TRAILER
MAIN OFFICE BUILDING
ALTERNATE GATE
ALTERNATE GATE




Proposed Drain Line

| Alcan Electrical & Engineering Inc | | |
|---|---|---|
| ML&P Plant 1<br>Area Drain Line | 6/3/2008 | |

## RE: UIC - ML&P Building 1120 Upgrades

O'Connell, William A (DEC) to: Jennifer Parker 05/11/2011 03:09 PM

From: "O'Connell, William A (DEC)" <bill.oconnell@alaska.gov>
To: Jennifer Parker/R10/USEPA/US@EPA,

Thanks Jennifer,

It looks like that one was for a different facility. I have forwarded the information from your first email to my contact at ML&P, Yalena Saville, and suggested she contact you to have the well inventoried. I'll follow up with her and let you know if there are any questions.

Bill

Bill O'Connell, C.P.G.
Environmental Program Specialist
ADEC Contaminated Sites Program
(907) 269-3057

-----Original Message-----
From: Parker.Jennifer@epamail.epa.gov [
mailto:Parker.Jennifer@epamail.epa.gov]
Sent: Wednesday, May 11, 2011 1:10 PM
To: O'Connell, William A (DEC)
Subject: Fw: UIC - ML&P Building 1120 Upgrades

I've been working on cleaning out old emails but this one is still here.
Municipal Light and Power inventoried one storm water drywell under construction on 9/30/08 for their facility at 1200 East 1st Avenue. We did not receive any notification that the construction is complete and the well is operational. It's a different address than the one you asked about, but same owner.

If there are any issues related to the injection well that need to be discussed, feel free to call or email.

Jennifer Parker, LG, LHG
U. S. Environmental Protection Agency Region 10
Ground Water Unit 1200 Sixth Avenue, Suite 900,
OCE-082 Seattle, Washington 98101
(206) 553-1900

----- Forwarded by Jennifer Parker/R10/USEPA/US on 05/11/2011 02:04 PM
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From: "Heather Estabrook"
<HeatherEstabrook@pdceng.com>
To: Jennifer Parker/R10/USEPA/US@EPA

Cc: "Jim Vail" <JimVail@pdceng.com>
Date: 10/02/2008 01:14 PM
Subject: UIC - ML&P Building 1120 Upgrades

Jennifer,
Attached you will find a cover letter explaining the project, the EPA form 7520-16 and two plan sheets from our construction set.
Please let me know if you need anything else.
Thanks,

Heather Estabrook, PE
Civil Engineer

PDC Inc. Engineers
Planning Design Construction

2700 Gambell Street, Suite 500 | Anchorage, Alaska 99503 v 907.743.3200 | f 907.743.3295 |
www.pdceng.com

"Transforming Challenges into Solutions"

(See attached file: Inventory of Injection Wells 7520-16.pdf)(See attached file: Injection Well Review Letter.pdf)(See attached file: Title and C1 Sheets.pdf)

RE: Dry Well Question
O'Connell, William A (DEC) to: Jennifer Parker 05/11/2011 01:55 PM

From: "O'Connell, William A (DEC)" <bill.oconnell@alaska.gov>
To: Jennifer Parker/R10/USEPA/US@EPA,

Thanks Jennifer,

The facility is Municipal Light and Power (ML&P) Hank Nikkels Plant 1, 821 East First Avenue, Anchorage, AK 99501.

Bill

Bill O'Connell, C.P.G.
Environmental Program Specialist
ADEC Contaminated Sites Program
(907) 269-3057

-----Original Message-----
From: Parker.Jennifer@epamail.epa.gov [mailto:Parker.Jennifer@epamail.epa.gov ]
Sent: Wednesday, May 11, 2011 12:18 PM
To: O'Connell, William A (DEC)
Subject: Re: Dry Well Question

Hi Bill!

Based on your description, my answer would be "yes." If it's deeper than it is wide or a subsurface fluid distribution system (drain field, drain tiles, etc.) and it takes fluid from above ground and disposes of it below ground, then it would be an injection well. Drywells are typically considered to be Class V wells. There are lots of drywells in use for storm water disposal but we always need/want to ask if anything else has entered or is likely to enter the well. (Numerous drywells that were supposed to be used for disposal of storm water only have caused contaminated sites.)

This may help the facility:
http://water.epa.gov/infrastructure/sustain/upload/2003_08_25_uic_class5_fs_uic-class5_classvstudy_fs_storm.pdf
(Drywells are discussed on the first page.)

If you want me to check our database to see if it's been inventoried, let me know the facility name and street address.

Jennifer Parker, LG, LHG
U. S. Environmental Protection Agency Region 10
Ground Water Unit
1200 Sixth Avenue, Suite 900, OCE-082
Seattle, Washington 98101
(206) 553-1900

From: "O'Connell, William A (DEC)" <bill.oconnell@alaska.gov>
To: Jennifer Parker/R10/USEPA/US@EPA

AK020055-20-13641

Date: 05/11/2011 12:52 PM
Subject: Dry Well Question

Hello Jennifer,

There is a facility here in Anchorage that has a drywell (as it's been described to me)outdoors in a parking lot that collects stormwater runoff which then infiltrates into the subsurface. Would this be considered a UIC well?

Thanks, Bill

Bill O'Connell, C.P.G.
Environmental Program Specialist
ADEC Contaminated Sites Program
(907) 269-3057